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## AMENDMENTS TO THE CLAIMS

## Listing of Claims:

Claims 1 - 10 (cancelled)

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Claim 11 (currently amended): An optical disc system for recording data to an optical disc, the optical disc system comprising:

an optical pickup unit for accessing data on the disc and producing a wobble

signal;

a spindle motor for rotating the disc according to a control signal;

a circuit for generating the control signal according to a rotation speed of the spindle motor, the circuit being not coupled to the wobble signal;

a phase locked loop (PLL) for extracting a carrier frequency of the wobble signal;

a clock synthesizer for producing a channel clock corresponding to a linear velocity, according to the wobble signal carrier frequency;

an encoding unit for encoding incoming data utilizing the channel clock, and then for producing a corresponding data signal for driving the optical pickup unit to record data to the optical disc;

whereby data recording does not need to be synchronized with the spindle motor operation.

Claim 12 (previously presented): The optical disc system of claim 11, further comprising a preamplifier connected between the optical pickup unit and the PLL for amplifying the wobble signal output by the optical pickup unit.

Claim 13 (previously presented): The optical disc system of claim 11, wherein the

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encoding unit further comprises:

- a data encoder, for encoding data according to the channel clock;
- a firmware, for transforming the encoded data into a pulse train; and
- a laser driver, for controlling the optical pickup unit for recording to the optical disc.

Claim 14 (previously presented): The optical disc system of claim 11 wherein the optical pickup unit is a laser pickup.

10 Claim 15 (previously presented): The optical disc system of claim 11 being an optical disc recorder.

Claim 16 (previously presented): The optical disc system of claim 11, wherein the spindle motor rotates the optical disc at constant angular velocity.

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Claim 17 (currently amended): A method for recording data to an optical disc, the method comprising:

providing an optical pickup unit for accessing a wobble signal from the optical disc;

providing a spindle motor for rotating the optical disc according to a control signal;

generating the control signal according to a rotation speed of the spindle motor and not according to the wobble signal;

extracting a carrier frequency of the wobble signal;

utilizing the wobble signal carrier frequency to generate a channel clock corresponding to a linear velocity;

encoding incoming data utilizing the channel clock, and then producing a corresponding data signal for driving the optical pickup unit to record

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data to the optical disc; whereby data recording does not need to be synchronized with the spindle motor operation.

- 5 Claim 18 (previously presented): The method of claim 17, wherein the step of accessing the wobble signal from the optical disc further comprises amplifying the wobble signal.
- Claim 19 (previously presented): The method of claim 17 wherein the optical disc system is an optical disc recorder.
  - Claim 20 (previously presented): The method of claim 17, wherein the step of rotating the optical disc rotates the optical disc at constant angular velocity.